Attorney Docket No.: 020487-000300US

N. THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Examiner:

E. Lee

Yueh Yale Ma et al.

Art Unit:

2815

Application No.: 09/467,141

Filed: December 10, 1999

AMENDMENT

For: DUAL-BIT DOUBLE-

POLYSILICON SOURCE-SIDE INJECTION FLASH EEPROM CELL

Assistant Commissioner for Patents Washington, D.C. 20231

December 20, 2001

Sir:

In response to the Office Action mailed June 20, 2001, for which a three-month extension to reply is enclosed, please amend the above-identified application as follows:

IN THE SPECIFICATION:

On page 2, please replace the paragraph beginning at line 11, with the following rewritten paragraph:

--A structural difference between cells 100 and 150 is that the [triply] triple-polysilicon cell 100 has five operating terminals (select-gate 101, control-gate 102, drain 104, source 105, and substrate 106), while the double-polysilicon cell 150 has four operating terminals (select-gate 151, drain 154, source 155, and substrate 156). Note that drain junction 154 is deeper than source junction 155 to increase floating gate 153 to drain 154 overlap capacitance for improved voltage coupling from the drain to the floating gate. Cell 100 has a channel portion 109.--

On page 2, please replace the paragraph beginning at line 22, with the following rewritten paragraph:

--While the programming mechanisms of cell structures 100 and 150 are similar (e.g., source-side injection, shown by the arrows P in Figs. 1A and 1B), their erase operations differ. In the triple-polysilicon cell 100, during [ease] erase, the electrons are tunneled from floating gate 103 to drain 104 via a thin gate-dielectric 107. This is shown by the arrow E in Fig. 1A. However, in the double-polysilicon cell 150, the electrons are tunneled from floating gate 153 to select-gate 151 via a

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02 FC:202

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03 FC:203

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

	Complete if Known					
EEE TRANSMITTAL	Application Number	09/467,141				
for FY 2001	Filing Date	December 10, 1999				
JAN 1 8 2002 4 Patent fees are subject to annual revision.	First Named Inventor	Ma, Yueh Yale				
	Examiner Name	E. Lee				
Company of Davastar (c) 530	Group Art Unit	2815				
TOTAL PARTICUNT OF PAYMENT (\$) 538	Attorney Docket No.	020487-000300US				

	METHOD	OF PAYMENT	FEE CALCULATION (continued)						
The Commissioner is hereby authorized to charge			3. ADDITIONAL FEES						
indicated fees and credit any over payments to:				Entity	Şmall	Entity			
D			Large Fee	Fee	Fee	Fee	Fee Description	Fee	
Deposit Account	20-1430		Code	(\$)	Code	(\$) CF	•	Paid	
Number			105 127	130 50	205 227	65 25	Surcharge - late filing fee or oath		
Deposit	tio ties				227	25	Surcharge - late provisional filing fee or cover sheet.		
Account Townsend and Townsend and Crew LLP				130	139	130	Non-English specification		
Name				2,520	147	2,520	For filing a request for reexamination		
☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17				920*	112	920*	Requesting publication of SIR prior to Examiner action		
Applicant claims small entity status. See 37 CFR 1.27				1,840*	113	1,840*	Requesting publication of SIR after Examiner action		
2. Payment Enclosed:				110	215	55	Extension for reply within first month		
☐ Check ☐ Credit card ☐ Money ☐ Other				400	216	200	Extension for reply within second month		
		Order	117	920	217	460	Extension for reply within third month	460	
FEE CALCULATION				1,440	218	720	Extension for reply within fourth		
1. BASIC FIL			128	1,960	228	980	Extension for reply within fifth month		
Large Entity S	_	Fee Description	119	320	219	160	Notice of Appeal		
	code (\$)	Fee Paid	120	320	220	160	Filing a brief in support of an appeal		
		Jtility filing fee	121	280	221	140	Request for oral hearing		
106 330 2	06 165 C	Design filing fee	138	1,510	138	1,510	Petition to institute a public use proceeding		
		Plant filing fee	140	110	240	55	Petition to revive – unavoidable		
		Reissue filing fee	141	1.280	241	640	Petition to revive – unintentional	-	
114 160 2	14 80 F	Provisional filing fee	142	1,280	242	640	Utility issue fee (or reissue)		
	SUBTOTAL	(1)	143	460	243	230	Design issue fee		
			144	620	244	310	Plant issue fee		
2. EXTRA CLAIM			122	130	122	130	Petitions to the Commissioner		
Total Claims 40	_	extra Fee from Fee Claims below Paid X \$9 = \$36	123	50	123	50	Petitions related to provisional applications		
Independent Claims 4	3" = 1		126	180	126	180	Submission of Information Disclosure Stmt		
Multiple Dependent	J - L	x =	581	40	581	40	Recording each patent assignment per property (times number of properties)		
	Small Entity		146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))		
Fee Fee Code (\$)	Fee Fee Code (8)	Fee Description	149	149 740 249 370 For each additional invention to be			For each additional invention to be		
103 18	203 9	Claims in excess of 20					examined (37 CFR § 1.129(b))	\vdash	
102 84	202 42	Independent claims in excess of 3	179	740	279	370	Request for Continued Examination (RCE)		
104 280	204 140	Multiple dependent claim, if not paid ** Reissue independent claims over	169	900	169	900	Request for expedited examination		
109 84	209 42	original patent		of a design application					
110 18	210 9	** Reissue claims in excess of 20 and over original patent	Other fee (specify) The Commissioner is authorized to share any additional fees to						
	su	JBTOTAL (2) (\$)78	The Commissioner is authorized to charge any additional fees to the above noted Deposit Account.						
	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)460								
or number previou	isiy paid, if greater;	For Reissues, see above							

SUBMITTED BY		Complete (if applicable)				
Name (Print/Type)	Barmak/Sap	Registration 50. (Attorney/Agent)	45,068	Telephone -	650-326-2400	
Signature	Sana	ialist		Date	December 20, 2001	

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